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human CAP-1

60
MLSHNTMMKQRKQQATAIMKEVHGNDVDGMDLGKKVSIIPRDIIMLEELSHLSNRGARLFKM
120
RQRRSDKYTFENFQYQSRAQINHSIAMQNGKVDGSNLEGGSQQAPLTPPNTPDPRSPNP
180
DNIAPGYSGPLKEIPPEKENTTAVPKYYQSPWEQAISNDPELLEALYPKLFKPEGKAEPL
240
DYRSFNRVATPFGGFEEKASRMVKFKVPDFELLLLTDPFRMSFVNPLSGRRSFNRTPKGWI
SENIPVITTEPTDDTTVPESDL

FIG. 1A

mouse CAP-1

60
MLSHSAMVKQRKQQASAITKEIHGHDVDGMDLGKKVSIIPRDIIMIEELSHFSNRGARLFKM
120
RQRRSDKYTFENFQYESRAQINHNIAMQNGRVDGSNLEGGSQQGPSTPPNTPDPRSPNP
180
ENIAPGYSGPLKEIPPERFNTTAVPKYYRSPWEQAIGSDPELLEALYPKLFKPEGKAEELR
240
DYRSFNRVATPFGGFEEKASKMVKFKVPDFELLLLTDPFRFLAFANPLSGRRCFNRAPKGWV
SENIPVVITTEPTEDATVPESDDL

FIG. 1B

human CAP-2

60
MPLSGTPAPNKKRKSSKLIMELTGGGQESSGLNKGKISVPRDVMLEELSLLTNRGSKMF
120
KLRQMRVEKFIYENHPDVFSDDSSMDHFQKFLPTVGGQLGTAGQGFYSKSNRGGSSQAGG
180
SGSAGQYGSDQQHHLGSGSGAGGTGGPAGQAGRGGAAGTAGVGETGSGDQAGGEGKHITV
240
FKTYISPWERAMGVDPQQKMELGIDLLAYGAKAELPKYKSFNRTAMPYGGYEKASKRMTF
QMPKFDLGPLLSEPLVLYNQNLNRPFSFNRTPIPWSSGEPVDYNVDIGIPLDGTEEL

FIG. 1C

mouse CAP-2

60
MPLSGTPAPNKKRKSSKLIMELTGGGRESSGLNKGKISVPRDVMLEELSLLTNRGSKMF
120
KLRQMRVEKFIYENHPDVFSDDSSMDHFQKFLPTVGGQLETAGQGFYKSGSSGGQAGSSG
180
SAGQYGSDRHHQGGSGFGAGGGGPGGQAGGGGAPGTVGLGEPGSGDQAGGDGKHVTVFKT
240
YISPWDRAMGVDPQQKVELGIDLLAYGAKAELPKYKSFNRTAMPYGGYEKASKRMTFQMP
KFDLGPLLSEPLVLYNQNLNRPFSFNRTPIPWSSGGEHVDYNVDIGIPLDGTEEL

FIG. 1D

[illegible]

FIG. 1E

[illegible]

FIG. 2A

mouse CAP-1

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10      20      30      40      50      60      70      80      90      100
ATTGGGCACATGGGATCGAGGACCATGCCGTTCCAGGTTCAAGGATAAAACCCATTGGGCCATAGTGCCTCATATTCCACCTTCAGTGCCTTCCCTCCA
TAAGCCGTGTACCTAGCTCCCTGGTACGCCAAGGTCCAAGTTCCTATTTTGGGTAAACCGGTATCACGGCAGTATAAGGTGGAAGTCACGGAAAGGAGGT

110     120     130     140     150     160     170     180     190     200
CAATTGGGATTACCCCTGCTGAAAAGCGCACGCTGCACGCAAGGGAACAAAAACTATGCTATCACATAGTGCCTATGGTGAAGCAAAGGAAACAGCAAG
GTTAAACCTAAGTGGGACGACTTTTCGCGTGGGACTGTCGTTCCCTTGTTTTTGATACGATAGTGATACACGGTACCACTTCGTTTCCTTTGTCGTTTC

210     220     230     240     250     260     270     280     290     300
CATCAGCCATCACGAAGGAAATCCATGGACATGATGTTGACGGCATGGACCTGGGCCAAAAAAGTTAGCATCCCCAGAGACATCATGATAGAAGAAATTGTC
GTAGTCGGTAGTGCTTCCTTTAGGTACCTGTACTACAACTGCCGTACCTGGACCCGTTTTTCAATCGTAGGGGTCTCTGTAGTACTATCTTCTTAACAG

310     320     330     340     350     360     370     380     390     400
CCATTTTCAGTAATCGTGGGCCAGGCTGTTAAGATGGGTCAAAGAAGATCTGACAAATACACCTTTGAAAAATTTCCAGTATGAATCTAGAGCACAAATT
GGTAAAGTCAATTAGCACCCCGGTCCGACAAATTTACGCAGTTTCTTCTAGACTGTTTATGTGGAAACTTTTAAAGTCACTACTTAGATCTCGTGTTTAA

410     420     430     440     450     460     470     480     490     500
AATCACAAATATCGCCATGCAGAAATGGGAGAGTTGATGGAAGCAACCTGGAAAGGTGGCTCACAGCAAGGCCCTCAACTCCGCCCAACACCCCGATCCAC
TTAGTGTTATAGCGGTACGCTTACCTCTCAACTACCTTCGTTGGACCTTCCACCGAGTGTGCTTCCGGGGAGTTGAGGCGGGTTGTGGGGGTAGGTG

510     520     530     540     550     560     570     580     590     600
GAAGCCCCCAAAATCCAGAGAACATCGCACCAAGGATATTCTGGACCACTGAAGGAAATTCCTCTGAAAGGTTTAAACACGACGGCCGTTCTTAAGTACTA
CTTCGGGGGTTTAGGTTCTTTGTAGCGTGGTCTATAAGACCTGGTGACTTCCCTTTAAGGAGGACTTTCCAAATTTGTGCTGCCGGCAAGGATTCATGAT

610     620     630     640     650     660     670     680     690     700
CCGGTCTCCATGGGAGCAGGCGAATTGGCAGCGATCCGGAGCTCTCGAGGGCTTTGTACCCAAAACCTTTCAAGCCTGAAGGAAAAGCAGAACTGCGGGAT
GGCCAGAGGTACCTCGTCCGCTAACCGTCGCTAGGCCCTCGAGGACCTCCGAAACATGGGTTTGAAGGTTTCGGACTTCCTTTTCGTCTTGACGCCCTA

710     720     730     740     750     760     770     780     790     800
TACAGGAGCTTTAAACAGGTTTGCCACTCCATTTGGAGGTTTGAAGGATCAAAATGGTCAAAATTCAAAGTTCCAGATTTTGAACACTGCTGCTGA
ATGTCCTCGAAATTTGCCAAGGTTAGGTTAAACCTCCAAACCTTTTTCGTAGTTTTTACCAGTTTAAAGTTTCAAGGTTTAAACTTGATGACGACGACT

810     820     830     840     850     860     870     880     890     900
CAGATCCCAGGTTCTTGGCCTTTGCCAATCCTCTTTTGGGCAGACGATGCTTTAACAGGGGCGCAAGGGGTGGGTATCTGAGAAATATCCCGTCTGTGA
GTCTAGGGTCCAAAGACCGGAACGGTTAGGAGAAAGCCGCTCTGTACGAAATTTGTCGGGTTTCCCGCGGTTCCCAACCATAGACTCTTATAGGGGCAGCACTA

910     920     930     940     950     960     970     980
CACAACTGAGCCTACAGAGACGCCACTGTACCGGAATCAGATGACCTGTGAGAGGGAAAGCTGGGGATGCCACAGGAAGTTC
GTGTTGACTCGGATGCTCTTTCGCGGTGACATGGCCTTAGTCTACTGGACACTTCCCTTCGACCCCTACGGTGTCTTCAAG

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FIG. 2B

human CAP-2

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CGGTACAGC AGCTCAGTC TCCAAAGCTG CTGGACCCCA GGGAGAGCTG ACCACTGCCC GAGCAGCCGG CTGAATCCAC CTCACAAATG CCGCTCTCAG      100
GAACCCCGGC CCTAATAAG AAGAGGAAT CCAGCAAGCT GATCATGGAA CTCACTGGAG GTGGACAGGA GAGCTCAGGC TTGAACCTGG GCAAAAAGAT      200
CAGTGTCCTCA AGGGATGTGA TGTGGAGGA ACTGTGCTG CTTACCAACC GGGGCTCCAA GATGTTCAA CTGCGGCAGA TGAGGGTGGA GAAGTTTATT      300
TATGAGAACC ACCCTGATGT TTTCTCTGAC AGCTCAATGG ATCACTTCCA GAAGTTCCTT CCAACAGTGG GGGGACAGCT GGGCAGAGCT GGTGAGGGAT      400
TCTCATAAG CAAGAGCAAC GGCAGAGGCG GCAGCCAGGC AGGGGGCAGT GGCTCTGCCG GACAGTATGG CTCTGATCAG CAGCACCATC TGGGCTCTGG      500
GTCTGGAGCT GGGGTACAG GTGGTCCCG GGGCCAGGCT GGCAGAGGAG GAGCTGCTGG CACACAGGGG GTTGGTGAGA CAGGATCAGG AGACCAGGCA      600
GGCGGAGAAG GAAACATAT CACTGTGTC AAGACCTATA TTCCCATG GGAGCGAGCC ATGGGGGTG ACCCCAGCA AAAAATGGAA CTGGCATTG      700
AOCCTCTGCC CTATGGGGCC AAGCTGAAC TTCCAAATA TAAGTCTTC AACAGGACGG CAATGCCCTA TGGTGGATAT GAGAAGGCCT CCAAAGCAT      800
GACCTCCAG ATGCCCAAG TTGACCTGGG GGCCTGCTG AGTGAACCCC TGGTCTCTA CAACCAAAAC CTCCTCAACA GGCCTTCTTT CAATCGAACC      900
CCTATTCCTT GGCTGAGCTC TGGGGAGCCT GTAGACTACA ACGTGGATAT TGGCATCCCC TTGGATGGAG AACAGAGGA GCTGTGAGGT GTTCTCTCTT     1000
CTGATTGCA TCATTTCCTC TCTCTGGCTC CAATTGGAG A

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FIG. 2C

mouse CAP-2

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100
GCCGGGAGA GCCGACCACC AACTGAGCAG CTGCTCAGAT CCACCTCCAC CATGCCACGC TCAGGAACCC CGGCCCTAA CAAGAGGAGG AAGTCAAGCA
200
AACTGATTAT GGAGCTCACT GGAGGTGGCC GGGAGAGCTC AGCCTGAAC CTGGGCAAGA AGATCAGTGT CCCAAGGGAT GTGATGTTGG AGGAGCTGTC
300
CCTTCTTACC AACCGAGGCT CCAAGATGTT CAAGCTACGG CAGATGCGGG TGGAGAAATT TATCTATGAG AATCACCCCG ATGTTTTCTC TGACAGCTCA
400
ATGGATCACT TCCAGAAGTT TCTTCCACA GTGGGAGGAC AGCTGGAGAC AGCTGGTCAG GGCTTCTCAT ATGGCAAGGG CAGCAGTGGG GGCCAGGCTG
500
GCAGCAGTGG CTCTGCTGGA CAGTATGGCT CTGACCGTCA TCAGCAGGGC TCTGGGTTTG GAGCTGGGGG TTCAGSTGGT CCTGGGGGCC AGGCTGGTGG
600
AGGAGGAGCT CCTGGCACAG TAGGGCTTGG AGAGCCCGGA TCAGGTGACC AGGCAGGTGG AGATGGAAAA CATGTCACTG TGTTCAGAC TTATATTTC
700
CCATGGGATC GGGCCATGGG GGTGATCCT CAGCAAAAAG TGGAACTTGG CATTGACCTA CTGGCATACG GTGCCAAAGC TGAATCCCC AAATATAAGT
800
CCTTCAACAG GACAGCAATG CCCTACGGTG GATATGAGAA GGCCTCCAAA CGCATGACCT TCCAGATGCC CAAGTTTGAC CTGGGGCCTC TGCTGAGTGA
900
ACCCCTGGTC CTCTACAACC AGAACCTCTC CAACAGGCTT TCTTTCAATC GAACCCCTAT TCCCTGGTTG AGCTCTGGGG AGCATGTAGA CTACAACGTG
1000
GATGTTGGTA TCCCTTGGA TGGAGAGACA GAGGAGCTGT GAAGTGCCCTC CTCTGTCTAT GTGCATCATT TCCCTTCTCT GGTTCGAATT TGAGAGTGGA
1100
TGCTGGACAG GATGCCCCAA CTGTTAATCC AGTATTCTTG TGGCAATGGA GGGTAAAGGG TGGGGTCCGT TGCCTTTCCA CCCTTCAAGT TCCTGCTCCG
AAGCATCCCT CCTACACAG TCAGAGCTCC CATCTGCTG TACCATATGG AATCTGCTCT TTTATGGAAT TTCT

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FIG. 2D

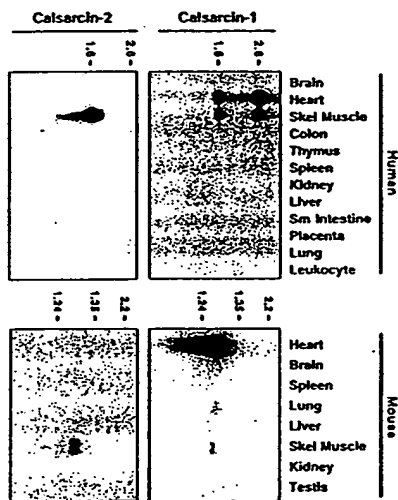


FIG. 3

FIG. 4C

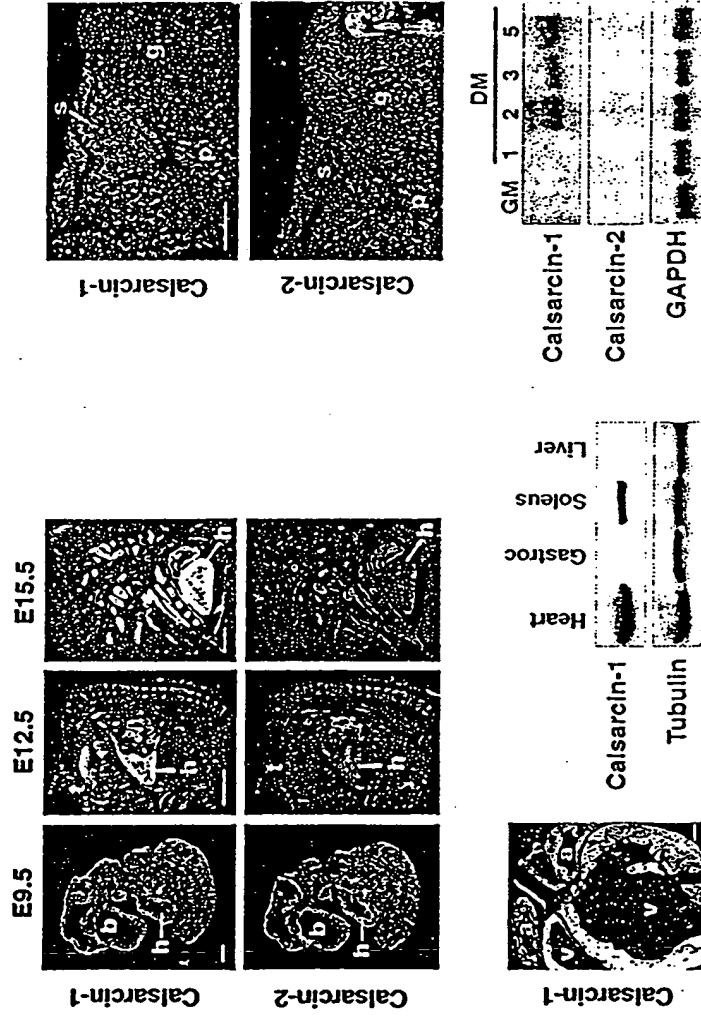


FIG. 4A

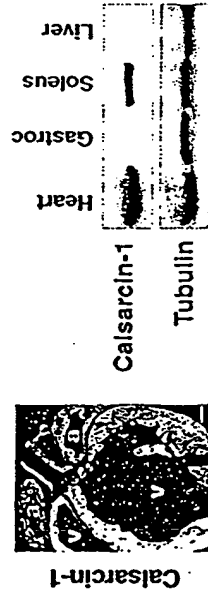


FIG. 4B

FIG. 4D

FIG. 4E



FIG. 5A



FIG. 5B

FIG. 6A

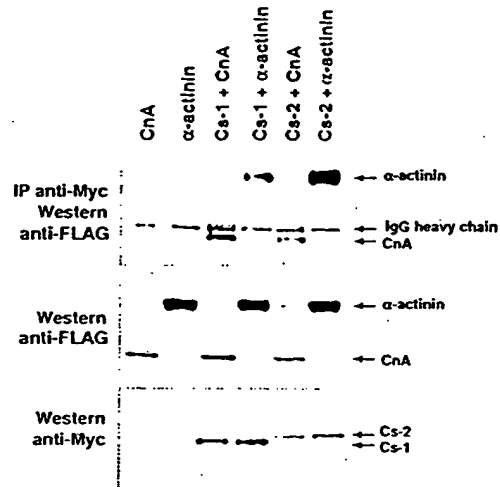


FIG. 6B

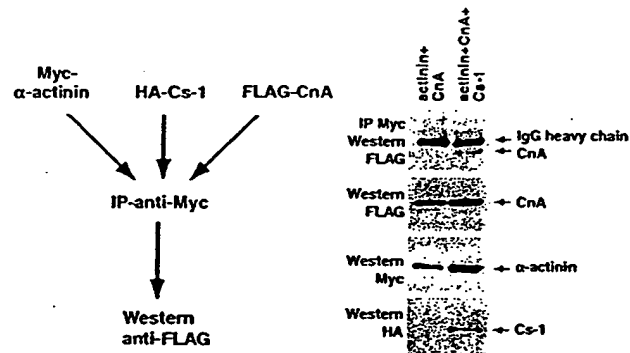
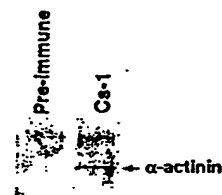


FIG. 6C



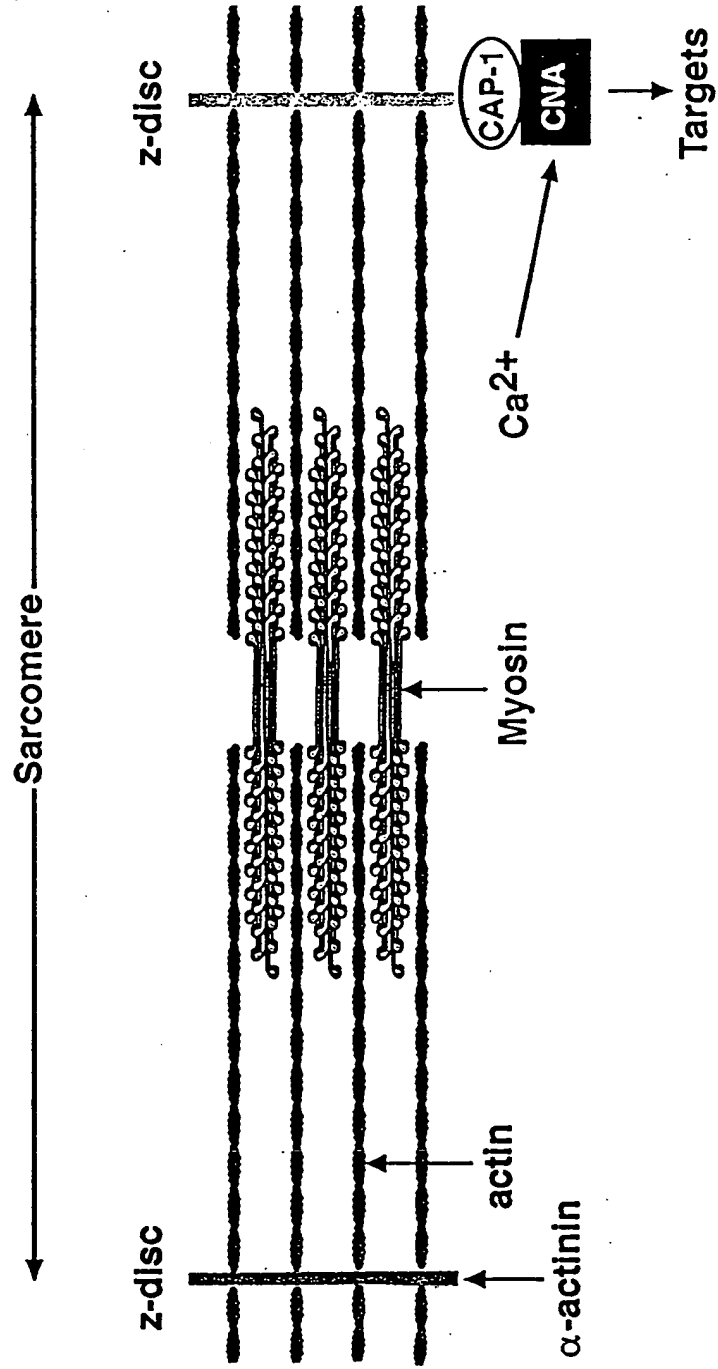


FIG. 8

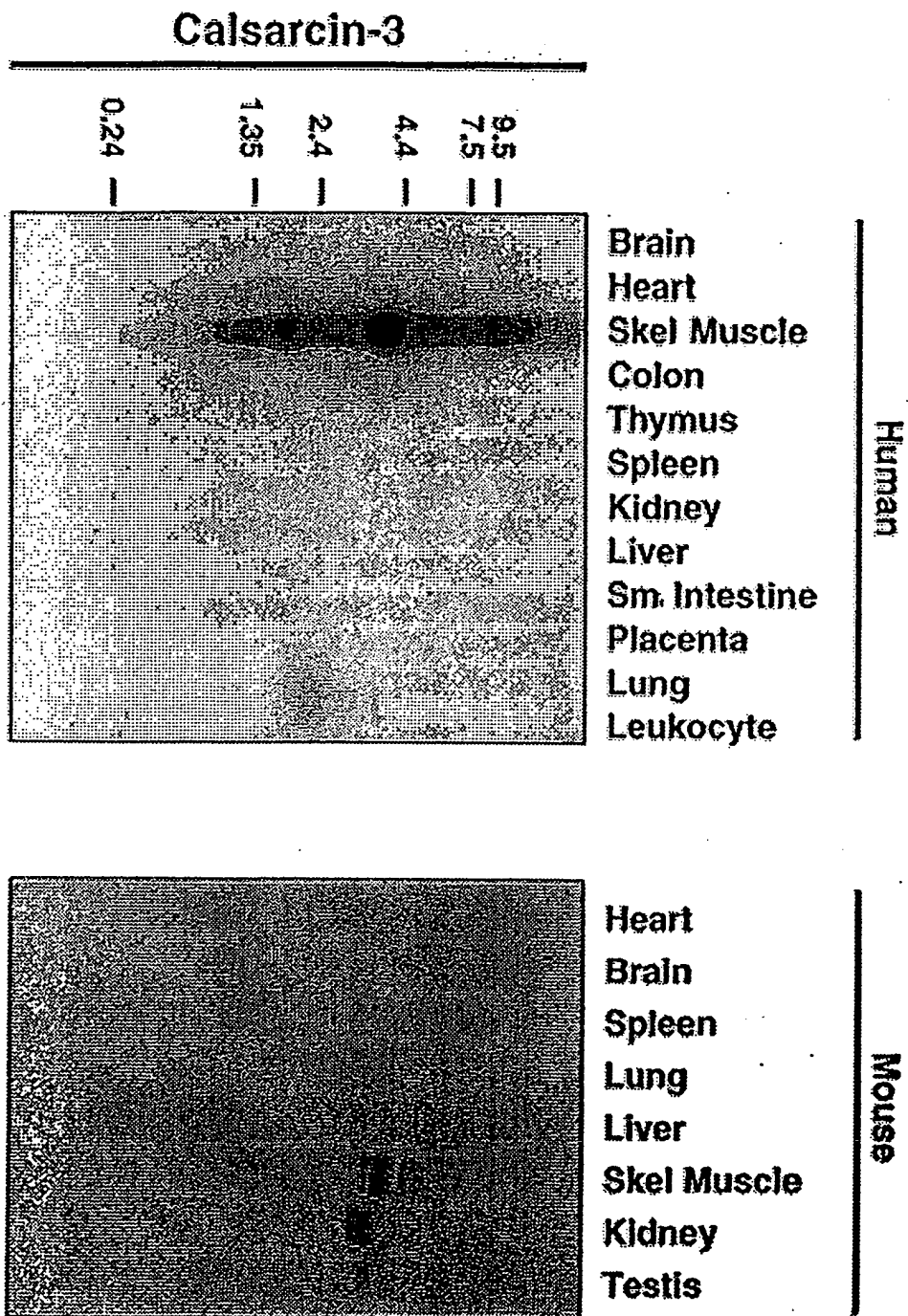


FIG. 9

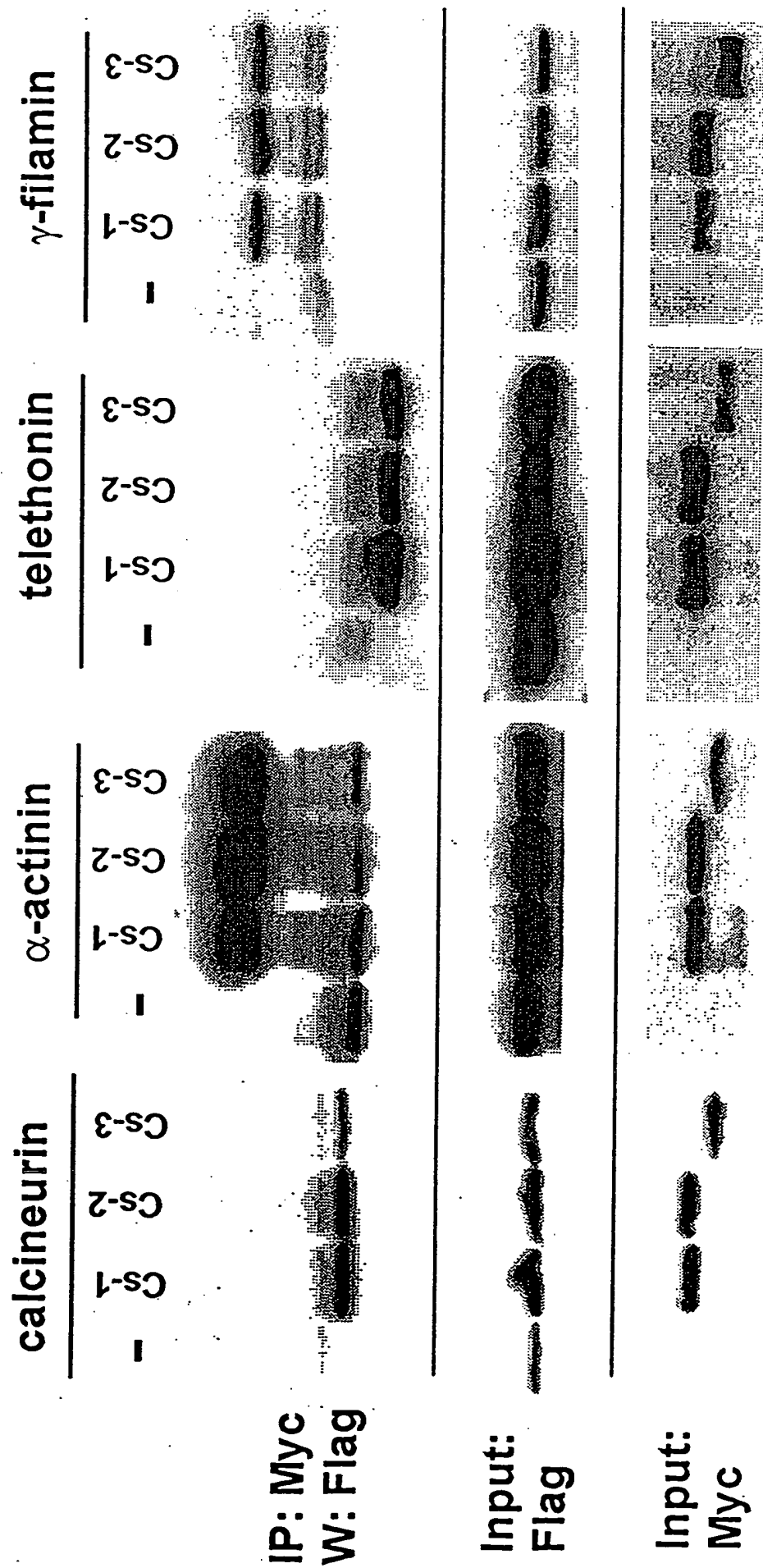
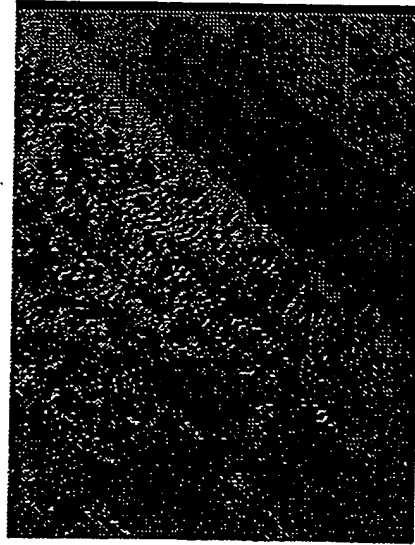
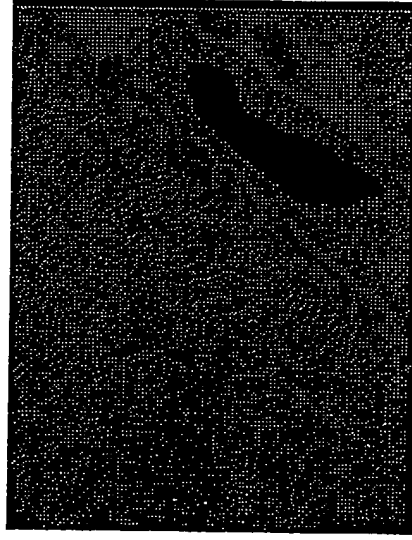


FIG. 10

calsarcin-3



actinin



merge



FIG. 11

FIG. 12



[illegible]

FIG. 13